



Belridge Water Softening Plant

Belridge, California

Client: Aera Energy, LLC

Aera Energy, LLC requires assistance with planning, land surveying, engineering, and project controls support for an innovative 30-acre water plant facility at their Belridge location. The water plant is being designed using the latest technologies and will be constructed using a modular approach with off-site prefabrication of pipe racks and piping, as well as 3D design. This water plant is being developed to aid and eventually replace the existing water plant facility which has reached capacity. The water plant will be used to clean produced water to be used as boiler feed water and for other purposes such as reinjection. The project utilizes Aera's Last Planner methodology which focuses on promoting reliable workflow, enabling learning and feedback, making reliable promises, and using "lean" thinking and principles.

DPSI's scope of work includes:

- Coordination of efforts by engineering disciplines as the project transitions from preliminary to detailed design
- Project management efforts include master scheduling and comprehensive project reports that provide schedule and cost updates
- Management of Automation & Survey control efforts, civil engineering, structural engineering, and geomatics
- Civil Engineering efforts include Grading and Drainage Plan, Dust Control Plan, Storm Water Prevention Pollution Plan, Septic System Design, Horizontal Control Plan, and permitting as required
- Structural Engineering efforts include all necessary calculations needed for permitting of the pipe rack, pipe supports, foundations, and equipment pads
- Geomatic efforts include preparation of a Constraints Map, Control and Monumentation, As-Built and Topographic Surveys, 3D Laser Scan, Preliminary Staking, Lot Line Adjustment, Ortho Aerial Photo Survey, Construction Staking Services, and permitting management services